

LOOP MATERIAL FOR TOUCH FASTENING

Abstract of the Disclosure

Lightweight, non-woven loop products for hook-and-loop fastening are disclosed, as are methods for making them and end products employing them. The products are non-woven webs of entangled fibers of substantial tenacity, the fibers forming both a sheet-form web body and hook-engageable, free-standing loops extending from the web body. The product is stretched and stabilized to produce spaced-apart loop clusters extending from a very thin web of taut fibers. In important cases a binder is added to stabilize the product in its stretched condition. An example of the loop product is produced by needle-punching a batt of staple fibers in multiple needle-punching operations, applying a foamed acrylic binder, and then stretching the needled batt and curing the binder with the batt stretched. Other forming techniques are disclosed and several novel articles and uses employing such loop products are described, such as for filters and fasteners.

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